

EDUCATION**ARIZONA STATE UNIVERSITY** (*Tempe, AZ*)

Aug 2014 – May 2018

*Barrett, the Honors College**Current GPA: 3.68*

- B.S.E., Electrical Engineering; B.S., Computational Mathematical Sciences

RESEARCH WORK/EMPLOYMENT**Design Engineer** with **THE LUMINOSITY LAB**, ASU Strategic Initiative

August 2016 – Present

Supervisor – Mark Naufel, Director of Strategic Projects

- Founding member of a student-run interdisciplinary lab striving to rapidly realize moonshot concepts
- Operated under direct supervision of the University President's Office

Researcher at **NATIONAL UNIVERSITY OF SINGAPORE**

May 2016 – July 2016

Social Robotics Lab: Supervisor – Dr. Shuzi Sam Ge, SRL Director, samge@nus.edu.sg

- Developed a natural language processing algorithm based on AIML for use in robotics applications

Tutor at the **Engineering Tutoring Center** at **ARIZONA STATE UNIVERSITY**

Oct 2015 – Sept 2016

Supervisor – Kaely Graham, kaely.graham@asu.edu

- Explaining concepts from math, physics, and engineering classes to facilitate better student performance
- Answering questions, giving homework and project help, and hosting review sessions

Developer with the **Nanoelectronics and Integration Lab** at **ASU**

June 2012 – Present

Supervisor – Dr. Hongbin Yu, Assistant Professor of Electrical Engineering, hongbin.yu@asu.edu

- Developing software for a fully automated method of rapidly measuring nano-scale deformations in heated computer chip samples based on diffraction patterns created by an incident laser.
- Created an integrated hardware system for autonomous data collection.
- Second author in a published paper in the Proceedings of the Materials Research Society.

LEADERSHIP/ORGANIZATIONS**ASU SUN DEVIL ROBOTICS CLUB***President*

May 2016 – Present

- Coordinating all club activities, leading a 9-person executive board, organizing club of 80+ students.

Treasurer and Organizational Vice President

August 2015 – May 2016

- Working with club president to manage budget of \$5k, advocating for funding from ASU and planning events.

ASU IEEE-HKN (ETA KAPPA NU) — *Inductee*

March 2015 – Present

- IEEE Electrical Engineering **Academic Honor Society**

ASU GRAND CHALLENGE SCHOLARS PROGRAM — *Member*

August 2014 – Present

- National Academy of Engineering **Academic Honor Society**
- Addressed the grand challenge of security through coursework, research, presentations, and team projects.

WESTWOOD HIGH SCHOOL ROBOTICS — **FIRST Team 2478** (*Mesa, AZ*)*College Mentor*

August 2014 – Present

- Building software mentorship base and student software ability, inspiring students to pursue STEM careers.
- Facilitating student discussions of strategy, robot design, and control software development

HONORS/AWARDS**IRA A FULTON SCHOOLS OF ENGINEERING DEAN'S LIST**

Fall 2014 – Present

EAGLE SCOUT

April 2011

SKILLS**PROFICIENT**

LabVIEW, NI-DAQ and NI Vision

Cadence Circuit Schematic and Layout

Python

C/C++

Java

FAMILIAR

Linux/BASH Shell

Mathematica, MATLAB